Bullet Fragmentation Study: Supplementary Data

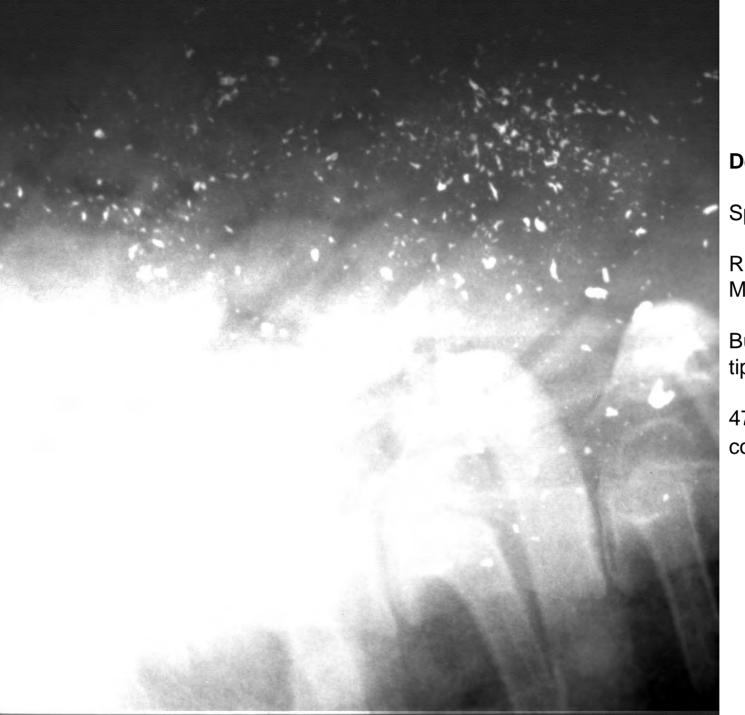


The Peregrine Fund offers these data and radiographic scans as supporting documentation of a peer-reviewed article accepted for publication in the 2005 winter issue of the Wildlife Society Bulletin, as follows:

Hunt, W.G, W. Burnham, C. N. Parish, K. Burnham, B. Mutch, and J.L. Oaks. 2005. Bullet fragments in deer remains: implications for lead exposure in scavengers. Wildlife Society Bulletin 33(4): xxxx-xxxx.

The table on the next page lists the numbers of bullet fragments we counted in radiographs of the remains of 38 mule deer and white-tailed deer shot by participating hunters during 2002-2004 (see article for methods). Radiographs of Deer 1-15 were of gut-piles collected in the field in 2002, and those of Deer 16-29 (2003) were of individuals from which the abdominal organs had been removed. Radiographs of Deer 30-38 (2004) were of whole and eviscerated deer and their gut piles.

				Number of fragments counted				
		Bullet	Bullet	Shot	Whole	Carcass (less	Eviscerated	
Deer	Rifle	Туре	Weight	Placement	carcass	abdominal viscera)	carcass	Gut pile
1	270 Win	lead core, polymer tip	140	thorax				171
2	243	lead core, lead tip	100	thorax, dorsal				51
3	no data	lead-core, tip unknown	_	no data				164
4	7mm	lead core, lead tip	150	thorax and pelvis				110
5	270	lead core, lead tip	130	neck				0
6	300 Weatherby	lead core, lead tip	165	thorax				350
7	300 Win Mag	lead core, lead tip	150	thorax				44
8	300 Weatherby	lead-core, tip unknown	180	thorax, front-to-rear				144
9	7 mm	lead core, lead tip	150	thorax				78
10	7 mm	lead core, lead tip	150	thorax, spine				329
11	.308 Win	lead-core, tip unknown	168	thorax				9
12	7.62 x 39	lead core, hollow point	148	thorax				10
13	7.62 x 39	lead core, hollow point	148	thorax				4
14	270 Win	lead core, polymer tip	130	neck				2
15	30-06 Springfield	lead core, lead tip	165	thorax				0
16	7mm Rem Mag	lead core, lead tip	160	thorax, exit spine		472		
17	270 Win	lead core, polymer tip	130	thorax		176		
18	7mm Rem Mag	lead core, lead tip	150	thorax			38	
19	270 Win	lead core, polymer tip	130	thorax		153		
20	270 Win	lead core, polymer tip	130	thorax, spine			105	
21	270 Win	lead core, polymer tip	130	thorax to abdomen		93		
22	270 Win	lead core, polymer tip	130	thorax, spine		467		
23	270 Win	lead core, polymer tip	130	thorax, from pelvis			76	
24	270 Win	lead core, polymer tip	130	thorax		106		
25	7mm Rem Mag	lead core, lead tip	150	thorax		392		
26	7mm Rem Mag	lead core, lead tip	150	thorax		221		
27	7mm Rem Mag	lead core, lead tip	150	thorax		25		
28	270 Win	lead core, polymer tip	130	thorax			102	
29	270 Win	lead core, polymer tip	130	thorax		25		
30		lead core, lead tip	175	thorax	547		224	67
31		lead core, lead tip	175	thorax	783		544	161
32	270 Win	lead core, lead tip	130	thorax	533		95	521
33		Solid copper, expanding	160	abdomen	2		2	0
34	270 Win	Solid copper, expanding	130	thorax	1		0	0
35		Solid copper, expanding	160	thorax	0		0	0
36	7mm Rem Mag	lead core, lead tip	175	abdomen	416		236	218
37	270	Solid copper, expanding	130	thorax	3		2	1
38	270	lead core, lead tip	130	thorax	478		214	450



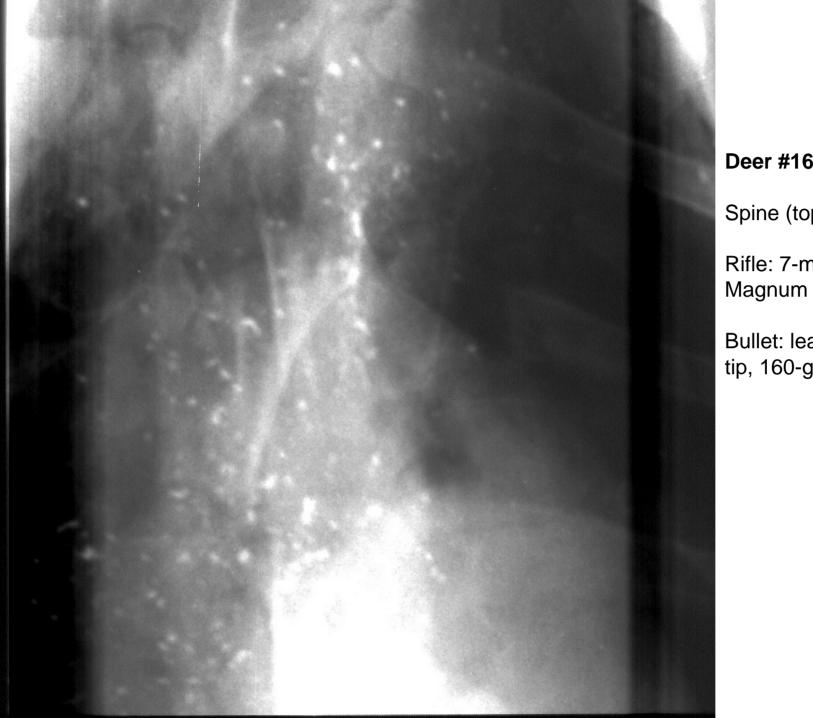
Spine

Rifle: 7-mm Rem

Magnum

Bullet: lead-core, lead

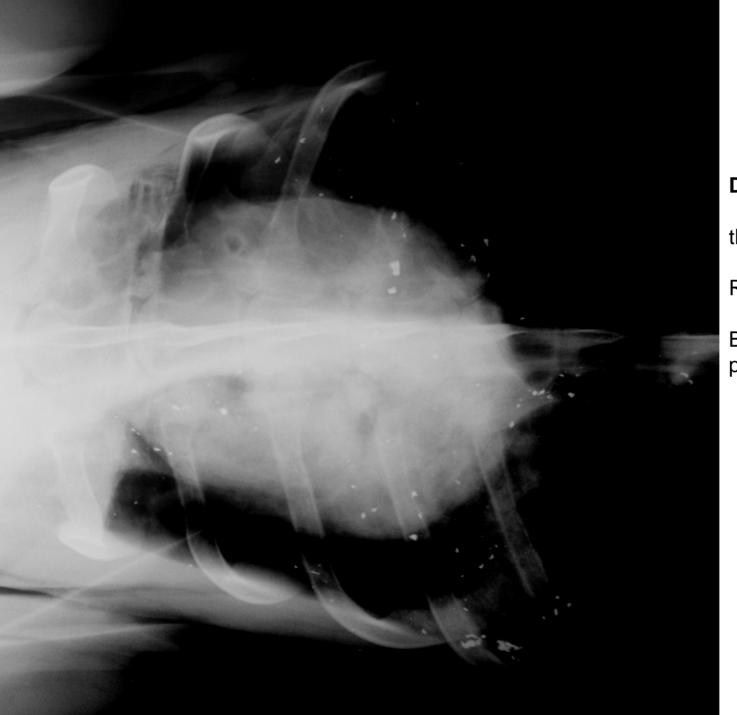
tip, 160-grain



Spine (top view)

Rifle: 7-mm Rem

Bullet: lead-core, lead tip, 160-grain

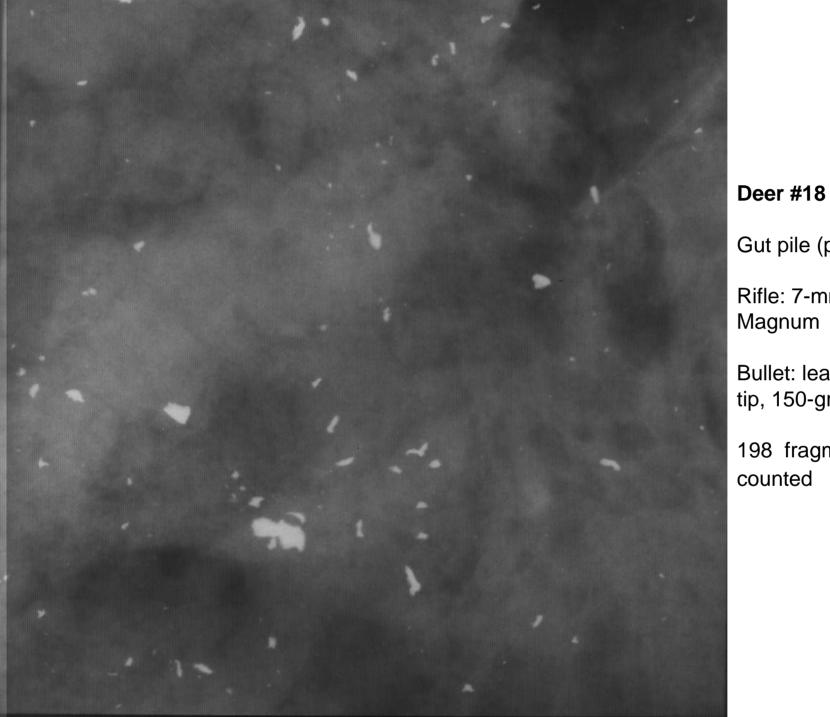


thorax

Rifle: 270 Win

Bullet: lead-core,

polymer-tip, 130-grain



Gut pile (portion)

Rifle: 7-mm Rem Magnum

Bullet: lead-core, lead tip, 150-grain



Thorax

Rifle: 270 Win

Bullet: lead-core, polymer tip, 130-grain



Deer 20

spine

Rifle: 270 Win

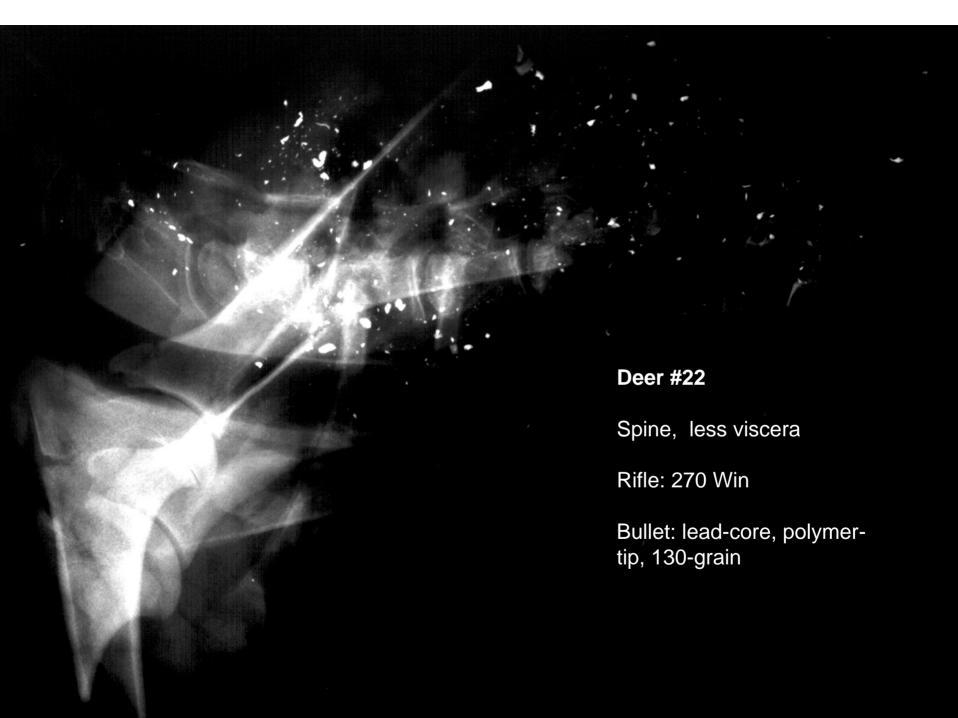
Bullet: lead core, polymer tip, 130-grain

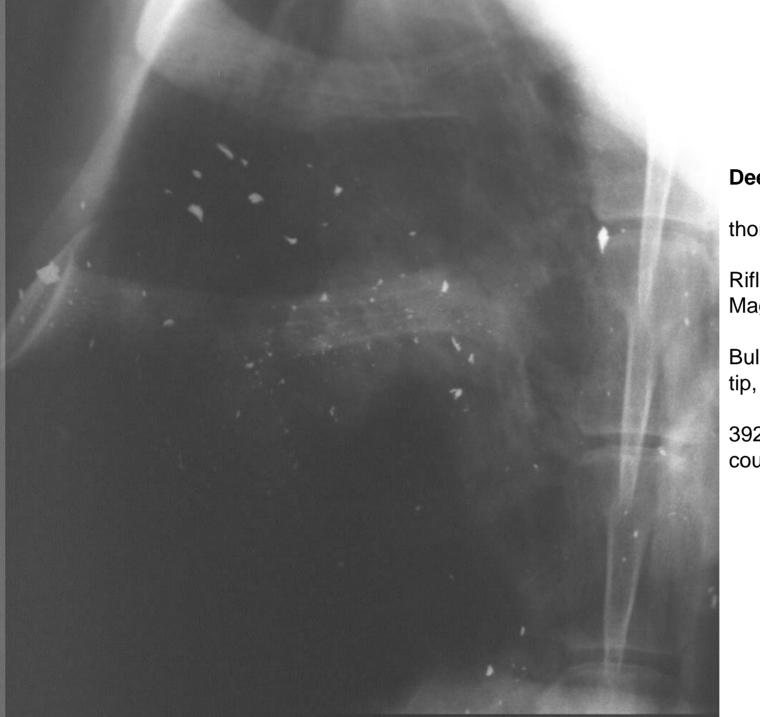


thorax

Rifle: 270 Win

Bullet: lead-core, polymer-tip, 130-grain



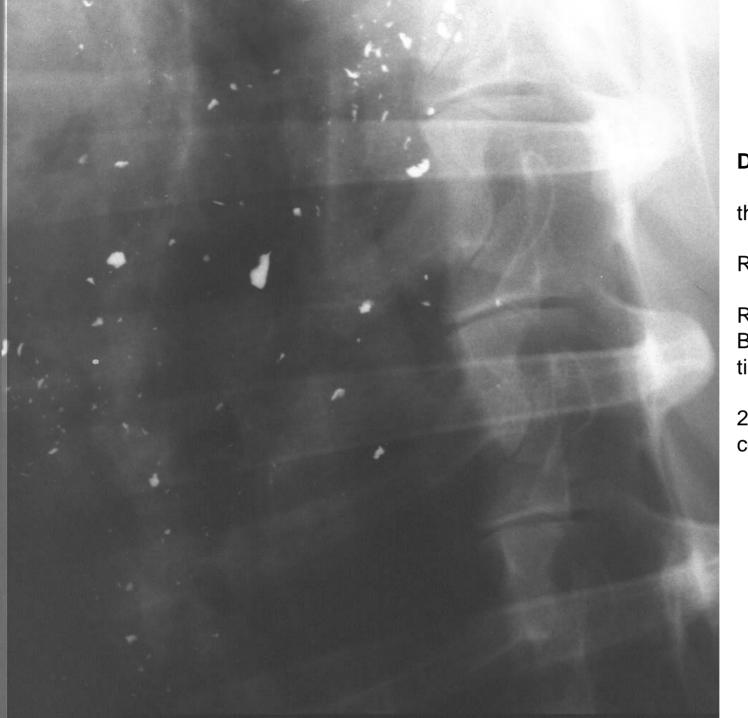


Deer 25

thorax, eviscerated

Rifle: 7-mm Rem Magnum

Bullet: lead core, lead tip, 150-grain



Deer 26

thorax, eviscerated

Rifle: 7-mm

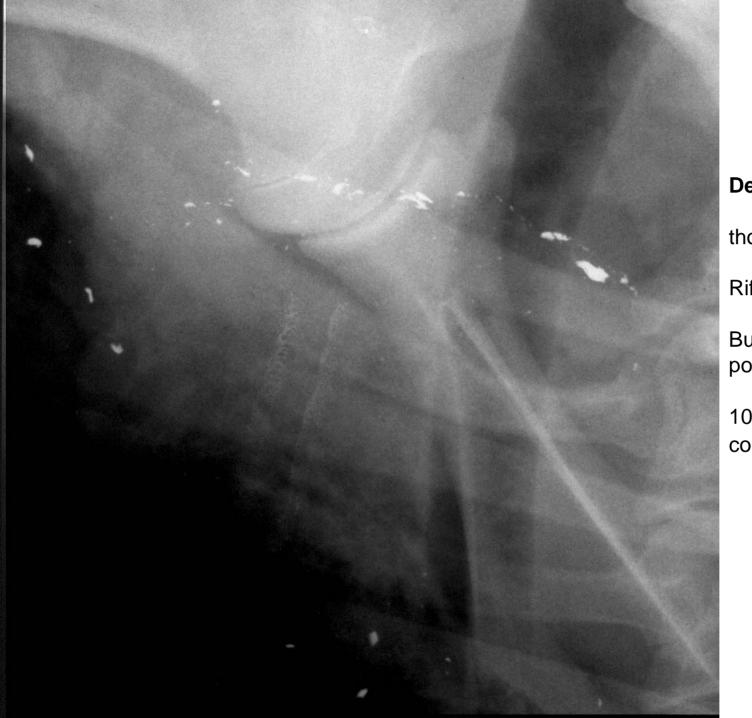
Rem Magnum Bullet: lead core, lead tip, 150-grain



thorax, eviscerated

Rifle: 270 Win

Bullet: lead-core, polymer tip, 130-grain

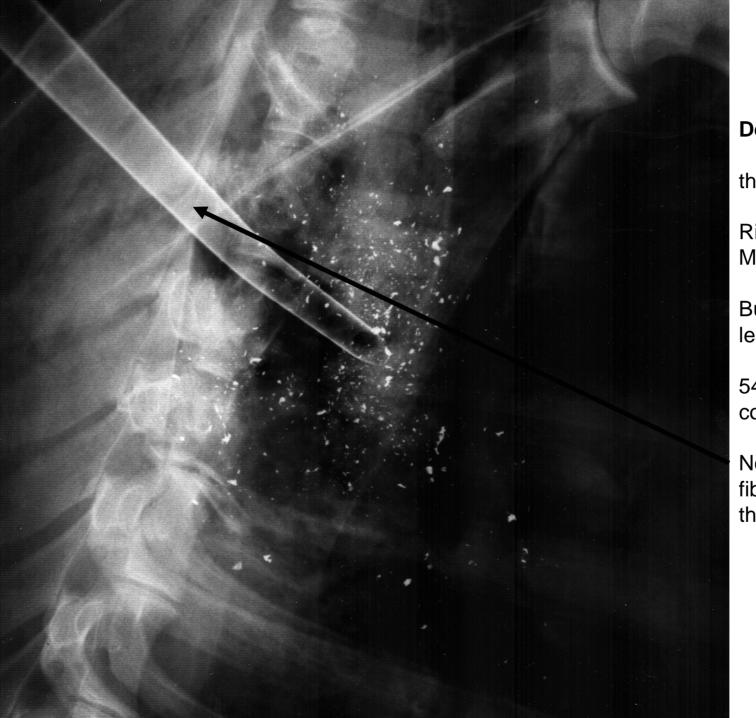


thorax, eviscerated

Rifle: 270 Win

Bullet: lead-core,

polymer tip, 130-grain



thorax, whole body

Rifle: 7-mm Rem Magnum

Bullet: lead-core, lead-tip, 175-grain

547 fragments counted

Note: 9-mm carbon fiber tube inserted through bullet path

